SL20
Installation Manual

WARNING: For your safety the information in this manual must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or death.

— Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

— WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Clear the room, building or area of all occupants.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

— Installation and service must be performed by a qualified installer, service agency or the gas supplier.

AVERTISSEMENT: Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

— Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables à proximité de cet appareil ou de tout autre appareil.

— QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

- Ne pas tenter d'allumer d'appareils.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment.
- Évacuez la pièce, le bâtiment ou la zone.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

— L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

American Dryer Corp.®

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051603JRB/mcronan

ADC Part No. 113191

Retain This Manual In A Safe Place For Future Reference

American Dryer Corporation products embody advanced concepts in engineering, design, and safety. If this product is properly maintained, it will provide many years of safe, efficient, and trouble free operation.

ONLY qualified technicians should service this equipment.

OBSERVE ALL SAFETY PRECAUTIONS displayed on the equipment or specified in the installation manual included with the dryer.

The following "**FOR YOUR SAFETY**" caution **must be** posted near the dryer in a prominent location.

FOR YOUR SAFETY	POUR VOTRE SÉCURITÉ
Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.	Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables à proximité de cet appareil ou de tout autre appareil.

We have tried to make this manual as complete as possible and hope you will find it useful. **ADC** reserves the right to make changes from time to time, without notice or obligation, in prices, specifications, colors, and material, and to change or discontinue models. The illustrations included in this manual may not depict your particular dryer **exactly**.

Important

For your convenience, log the following information:

DATE OF PURCHASE _____ **MODEL NO.** SL20

RESELLER'S NAME _____

Serial Number(s) _____

_____

_____

Replacement parts can be obtained from your reseller or the **ADC** factory. When ordering replacement parts from the factory, you can FAX your order to **ADC** at (508) 678-9447 or telephone your order directly to the **ADC** Parts Department at (508) 678-9000. Please specify the dryer **model number** and **serial number** in addition to the **description** and **part number**, so that your order is processed accurately and promptly.

"IMPORTANT NOTE TO PURCHASER"

Information **must be** obtained from your local gas supplier on the instructions to be followed if the user smells gas. These instructions **must be** posted in a prominent location near the dryer.

Important

You must disconnect and lock out the electric supply and the gas supply before any covers or panels are removed from the machine to allow access for cleaning, adjusting, installation, or testing of any equipment per OSHA (Occupational Safety and Health Administration) standards.

Please observe all safety precautions displayed on the equipment and/or specified in the installation manual included with the dryer.

Dryer must be installed in a location/environment, which the ambient temperature remains between 40° f (4.44° c) and 130° f (54.44° c).

"Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper operation."

«Attention: Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.»

Caution

Dryers should never be left unattended while in operation.

When discarding or storing your old clothes dryer, remove the door.

Lorsque vous entreposez ou mettez votre sécheuse au rebut, enlevez-en la porte.

Do not allow children to play on or in the appliance. Close supervision of children is necessary when the appliance is used near children.

Ne laissez pas les enfants jouer dans ou sur l'appareil. Il est important de surveiller étroitement les enfants lorsque l'appareil est utilisé non loin d'enfants.

For Your Safety

Do not dry mop heads in the dryer.
Do not use dryer in the presence of dry cleaning fumes.

Warning

Under no circumstances should the dryer main door switch, lint drawer switch, or the heat circuit devices ever be disabled.

The dryer must never be operated with any of the back guards, outer tops, or service panels removed. Personal injury or fire could result.

Dryer must never be operated without the lint filter/screen in place, even if an external lint collection system is used.

Dryer ***must not be*** installed or stored in an area where it **will be** exposed to water or weather.

The wiring diagram for the dryer is located behind the front control panel.

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Safety Precautions

Warning

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury, or loss of life.

The dryer must never be operated with the back guard removed. Personal injury or fire could result.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

No other fuel-burning appliance shall be installed in the same closet as the dryer.

When discarding or storing your old clothes dryer, remove the door.

Purchaser/user should consult the local gas supplier for proper instructions to be followed in the event the user smells gas. The instructions should be posted in a prominent location.

What To Do If You Smell Gas

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Clear the room, building, or area of all occupants.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency, or gas supplier.

This dryer must be exhausted to the outdoors. (Cette sécheuse doit évacuer à l'extérieur.)

Although **ADC** produces a very versatile dryer, there are some articles that, due to fabric composition or cleaning method, should not be dried in it.

Warning

Dry only water washed fabrics. Do not dry articles spotted or washed in dry cleaning solvents, a combustible detergent, or "all purpose" cleaner. Explosion could result.

Do not dry rags or articles coated or contaminated with gasoline, kerosene, oil, paint, or wax. Explosion could result.

Do not dry mop heads. Contamination by wax or flammable solvents will create a fire hazard.

Warning

Do not use heat for drying articles that contain plastic, foam, sponge rubber, or similarly textured rubber materials. Drying in a heated basket (tumbler) may damage plastics or rubber and may be a fire hazard.

A program should be established for the inspection and cleaning of lint in the exhaust ductwork and area around the back of the dryer. The frequency of inspection and cleaning can best be determined from experience at each location.

Warning

The collection of lint in the exhaust ductwork can create a potential fire hazard.

For personal safety, the dryer must be electrically grounded in accordance with local codes and/or the National Electrical Code ANSI/NFPA NO. 70-LATEST EDITION or in Canada, the Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or LATEST EDITION.

Note

Failure to electrically ground the dryer properly will void the warranty.

Under no circumstances should the dryer main door switch, lint drawer/tray switch, or the heat circuit devices ever be disabled.

Warning

Personal injury or fire could result should the dryer main door switch, lint drawer/tray switch, or the heat circuit devices ever be disabled.

This dryer is not to be used in the presence of dry cleaning solvents or fumes.

Remove articles from the dryer as soon as the drying cycle has been completed.

Warning

Articles left in the dryer after the drying and cooling cycles have been completed can create a fire hazard.

Read and follow all caution and direction labels attached to the dryer.

Warning

YOU MUST DISCONNECT AND LOCK OUT THE ELECTRIC SUPPLY AND THE GAS SUPPLY BEFORE ANY COVERS OR Panels ARE REMOVED FROM THE MACHINE TO ALLOW ACCESS FOR CLEANING, ADJUSTING, INSTALLATION, OR TESTING OF ANY EQUIPMENT PER OSHA (Occupational Safety and Health Administration) STANDARDS.

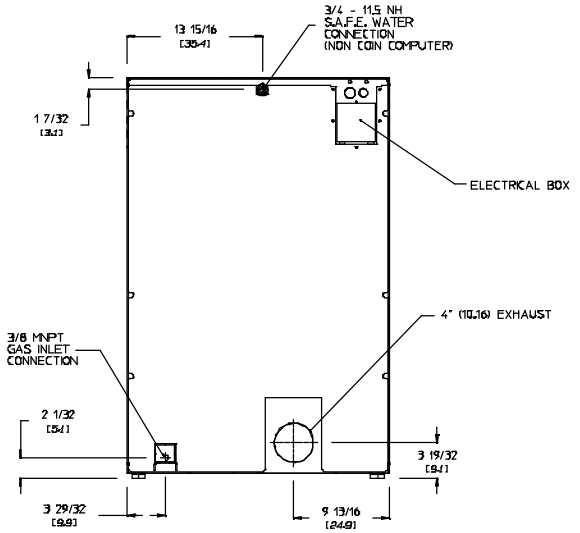
Important

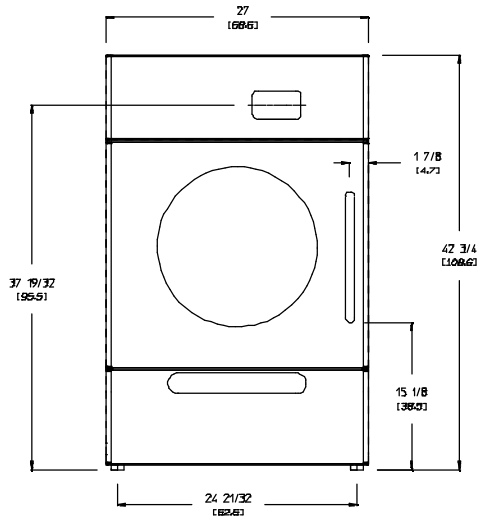
Dryer must be installed in a location/environment, which the ambient temperature remains between 40º F (4.44º C) and 130º F (54.44º C).

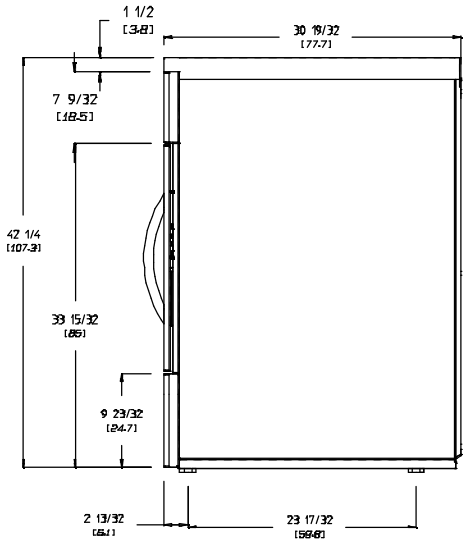
SPECIFICATIONS

MAXIMUM CAPACITY (DRY WEIGHT)		20 lbs	**9 kg**
BASKET (TUMBLER) DIAMETER		25.75”	**65.4 cm**
BASKET (TUMBLER) DEPTH		24”	**60.95 cm**
BASKET (TUMBLER) VOLUME		7.5 cu ft	**0.21 cu m**
BASKET (TUMBLER) MOTOR		1/4 hp	**0.19 kW**
BLOWER MOTOR		1/8 hp	**0.1 kW**
CABINET WIDTH		27”	**68.6 cm**
CABINET DEPTH		30.59”	**77.7 cm**
CABINET HEIGHT		42.25”	**108.6 cm**
EXHAUST CONNECTION		4”	**10.2 cm**
HEAT INPUT		40,000 Btu/hr	**10,080 kcal/hr**
AIRFLOW @ 60 HZ		230 cfm	**6.51 cmm**
AIRFLOW @ 50 HZ		200 cfm	**5.7 cmm**
S.A.F.E. WATER CONNECTION		3/4”-11.5 NH	
GAS	VOLTAGE AVAILABLE	120v, 208v, 230/240v / 60 Hz / 1ø 230/240v / 50 Hz / 1ø	
GAS	NET WEIGHT	246.5 lbs	**111.8 kg**
GAS	INLET PIPE CONNECTION	3/8” M.N.P.T.	
ELECTRIC	VOLTAGE AVAILABLE	208v, 230/240v / 60 Hz / 1ø 230/240v / 50 Hz / 1ø 380v, 400v, 416v / 50 Hz / 3ø	
ELECTRIC	NET WEIGHT	239.5 lbs	**108.6 kg**
ELECTRIC	Oven Size		
ELECTRIC	Voltage	kW	Btu/hr	**kcal/hr**
ELECTRIC	208	4.1	13,993	**3,526**
ELECTRIC	208	6.1	20,819	**5,246**
ELECTRIC	230	5.0	17,065	**4,300**
ELECTRIC	230	7.4	25,255	**6,364**
ELECTRIC	230/240	5.4	18,430	**4,644**
ELECTRIC	230/240	8.1	27,644	**6,966**
ELECTRIC	380	6.8	23,208	**5,848**
ELECTRIC	400	7.5	25,597	**6,450**
ELECTRIC	416	8.1	27,644	**6,966**

Shaded areas are stated in metric equivalent 1/22/04







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Note

ADC *reserves the right to make changes in specifications at any time without notice or obligation.*

Installation Procedures

Installation should be performed by competent technicians in accordance with local and state codes. In the absence of these codes, the installation must conform to applicable American National Standards: ANSI Z223.1-LATEST EDITION (National Fuel Gas Code) or ANSI/NFPA NO. 70-LATEST EDITION (National Electrical Code) or in Canada, the installation must conform to applicable Canadian Standards: CAN/CGA-B149.1-M91 (Natural Gas) or CAN/CGA-B149.2-M91 (Liquid Propane [L.P.] Gas) or LATEST EDITION (for General Installation and Gas Plumbing) or Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or LATEST EDITION (for Electrical Connections).

Unpacking/Setting Up

Remove protective shipping material (i.e., plastic wrap and optional shipping box) from the dryer.

Important

Dryer must be transported and handled in an upright position at all times.

The dryer can be moved to its final location while still attached to the skid or with the skid removed. To unskid the dryer, locate and remove the two (2) bolts securing the base of the dryer to the wooden skid.

With the skid removed, to make it easier to slide the dryer into its final position, slightly lower all four (4) leveling legs, so that the dryer will slide on the legs instead of the base frame.

Location Requirements

Before installing the dryer, be sure the location conforms to local codes and ordinances. In the absence of such codes or ordinances the location must conform with the National Fuel Gas Code ANSI.Z223.1 LATEST EDITION, or in Canada, the installation must conform to applicable Canadian Standards: CAN/CGA-B149.1-M91 (Natural Gas) or CAN/CGA-B149.2-M91 (L.P. Gas) or LATEST EDITION (for General Installation and Gas Plumbing).

The dryer must be installed on a sound level floor capable of supporting its weight. Carpeting must be removed from the floor area that the dryer is to rest on.

Important

"The dryer must be installed on noncombustible floors only." Noncombustible floors are not required for domestic use.

The dryer must not be installed or stored in an area where it will be exposed to water and/or weather.

Dryers installed in residential garages must be elevated 18-inches (45.72 cm) above the floor.

Provisions for adequate air supply must be provided as noted in this manual (refer to **Fresh Air Supply Requirements**).

Clearance provisions must be made from combustible construction as noted in this manual (refer to **Dryer Enclosure Requirements**).

Provisions must be made for adequate clearances for servicing and for operation as noted in this manual (refer to **Dryer Enclosure Requirements**).

The dryer must be installed with a proper exhaust duct connection to the outside as noted in this manual (refer to **Exhaust Requirements**).

Dryer must be located in an area where correct exhaust venting can be achieved as noted in this manual (refer to **Exhaust Requirements**).

Important

Dryer should be located where a minimum amount of exhaust duct will be necessary.

The dryer must be installed with adequate clearance for air openings into the combustion chamber.

Caution

This dryer produces combustible lint and must be exhausted to the outdoors. Every 6 months, inspect the exhaust ducting and remove any lint buildup.

Important

Dryer must be installed in a location/environment, which the ambient temperature remains between 40º F (4.44º C) and 130º F (54.44º C).

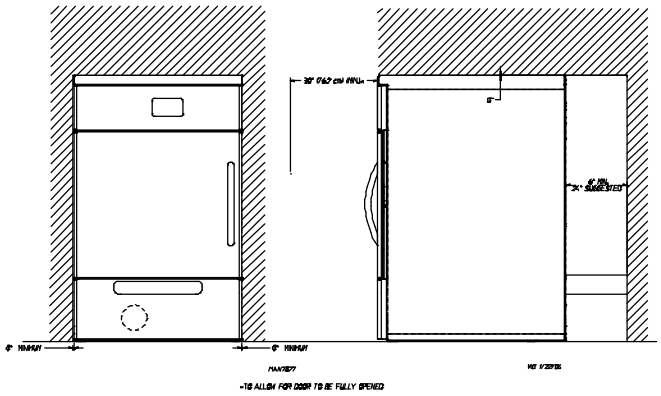
Dryer Enclosure Requirements

Note

Allowances must be made for opening the control door.

Air considerations are important for proper and efficient operation.

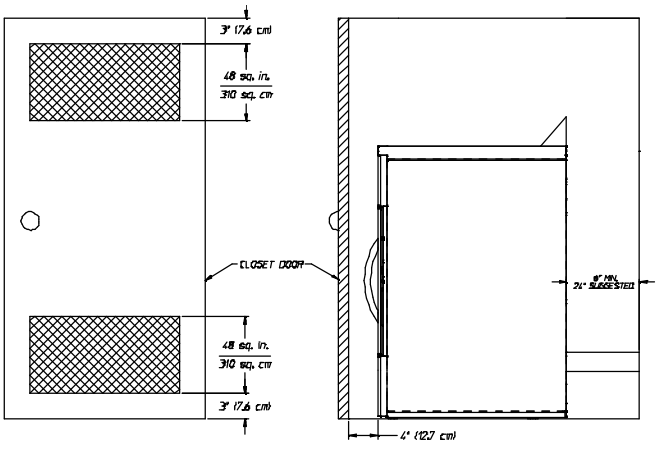
Commercial Type II



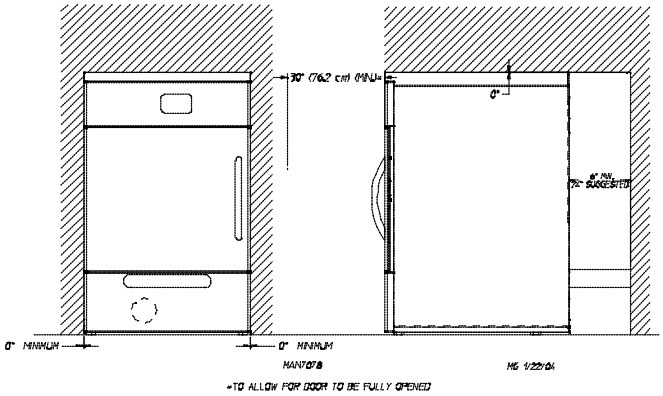
X = 6-inch (15.24 cm) minimum, 24-inches (60.96 cm) is suggested for ease of maintenance.

Dryers may be positioned sidewall to sidewall. It is suggested that the dryer be positioned about 2 feet (0.61 meters) away from the nearest obstruction for ease of installation, maintenance, and service (to be measured from the back guard). Refer to the illustration above for details.

Domestic Type I



CLOSET CONFINED AREA INSTALLATION



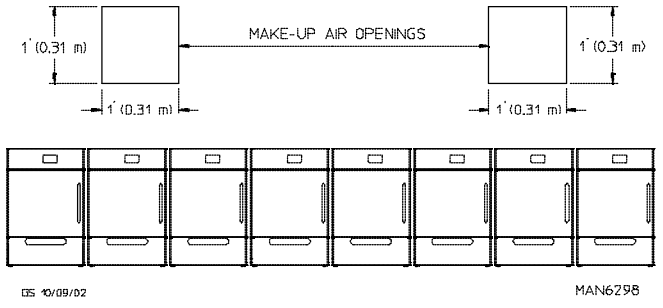
If a closet door is installed: unobstructed air openings are required. The air openings shall be located 3-inches (7.62 cm) from the lower opening (above floor level) and upper opening (below ceiling). The total free area of the air openings in the door shall not be less than 96 square inches (619.35 square centimeters). Louvered doors with equivalent air openings are acceptable.

No other fuel-burning appliance shall be installed in the same closet as the dryer.

Fresh Air Supply Requirements

The air supply (make-up air) must be given careful consideration to ensure proper performance of each dryer. An unrestricted source of air is necessary for each dryer. As a general rule, an unrestricted air entrance from the outdoors (atmosphere) of a minimum of 1/3 square feet (0.031 square meters) is required for each dryer. If registers or louvers are installed over the openings, then the area must be increased. It is not necessary to have a separate make-up air opening for each dryer. Common make-up air openings are acceptable. However, they must be set up in such a manner that the make-up air is distributed equally to the dryers. The dryer must be installed with provisions for adequate combustion and make-up air supply.

EXAMPLE: For a bank of eight (8) dryers, two (2) unrestricted openings measuring 1 foot by 1 foot (0.31 meters by 0.31 meters), (1 square foot [0.93 square meters]) are acceptable.



TYPICAL INSTALLATION SHOWING MAKE-UP AIR OPENINGS

Important

Make-up air openings should not be *located in an area directly near where exhaust vents exit the building.*

Allowances must be made for remote or constricting passageways or where dryers are located at excessive altitudes or predominantly low pressure areas.

Important

Make-up air must be provided from a source free of dry cleaning solvent fumes. Make-up air that is contaminated by dry cleaning solvent fumes will result in irreparable damage to the motors and other dryer components.

Note

Component failure due to dry cleaning solvent fumes will void the warranty.

Exhaust Requirements

Do not use a nonmetal flexible vent or a metal vent that is smaller than 4-inches (10.2 cm) in diameter or exhaust hoods with magnetic latches.

The dryer shall not be exhausted into any gas vent, chimney, wall, ceiling or concealed space of a building.

Do not install flexible vent in enclosed walls, ceilings, or floors.

Important

Observe all governing codes and ordinances.

Exhaust your dryer to the outside. Moisture and lint indoors may cause:

- Lint to gather around the dryer where it can be fuel for a fire.
- Moisture damage to woodwork, furniture, paint, wallpaper, carpet, etc.
- Housecleaning problems and health problems.

A 4-inch (10.2 cm) diameter vent is required. A rigid or flexible metal vent must be used. Do not use a plastic or a foil covered vent.

Use a heavy metal vent. Do not use a plastic or metal foil vent. A rigid metal vent is recommended to prevent crushing and kinking. A flexible metal vent must be fully extended and supported when the dryer is in its final position. Remove excess flexible vent to avoid sagging and kinking that may result in reduced airflow.

If using an existing exhaust system, clean lint from entire length of system. Make sure exhaust hood is not plugged with lint. Replace any vinyl or metallized plastic foil vent with rigid metal or flexible metal vent.

Use duct tape to seal all joints. Do not use screws or other fastening devices that extend into the interior of the vent to secure vent.

Service check: Back pressure in any exhaust system used must be no less than 0 and must not exceed 0.6 inches (1.49 mb) water column (W.C.) measured with an incline manometer at the point that exhaust vent connects to the dryer.

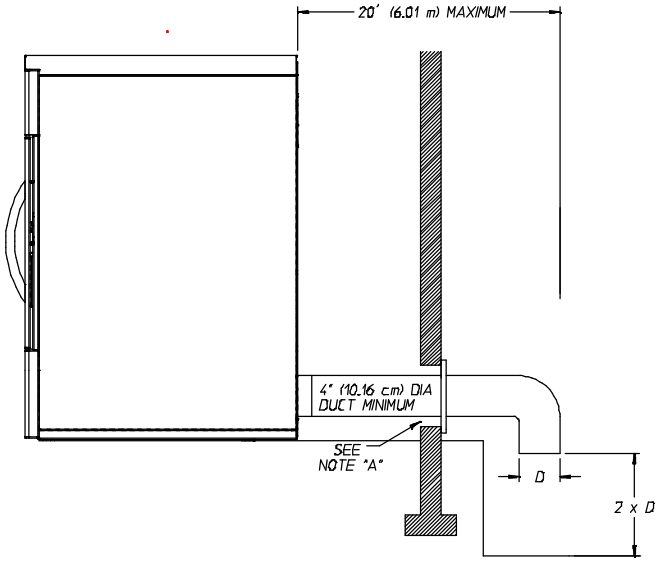
Important

It is recommended that exhaust or booster fans not be used in the exhaust ductwork system.

Note

As per the National Fuel Gas Code, "Exhaust ducts for type 2 clothes dryers shall be constructed of sheet metal or other noncombustible material. Such ducts shall be equivalent in strength and corrosion resistance to ducts made of galvanized sheet steel not less than 0.0195-inches (26 gauge [0.05 mm]) thick."

Horizontal Single Dryer Venting
4-inch (10.16 cm) Ducting



NOTE A: OPENING MUST BE 2-INCHES (5.08 cm) LARGER THAN THE DUCT (ALL THE WAY AROUND). THE DUCT MUST BE CENTERED WITHIN THIS OPENING.

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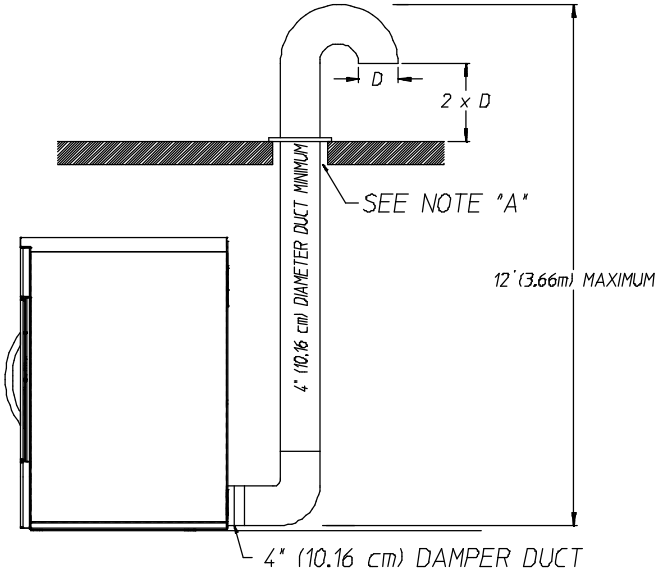
Vertical Single Dryer Venting



NOTE A: OPENING MUST BE 2-INCHES (5.08 cm) LARGER THAN THE DUCT (ALL THE WAY AROUND). THE DUCT MUST BE CENTERED WITHIN THIS OPENING.

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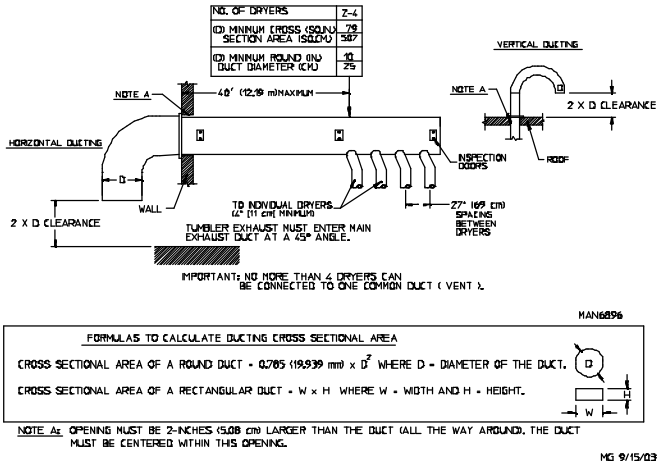
Multiple Dryer (Common) Venting

If it is not feasible to provide separate exhaust ducts for each dryer, ducts from individual dryers may be channeled into a "common main duct." The individual ducts should enter the bottom or side of the main duct at an angle not more than 45° in the direction of the flow and should be spaced at least 27-inches (68.58 cm) apart.



Important

When exhausted into a multiple (common) exhaust line, a back draft damper must be installed at each dryer duct.

No more than four (4) dryers should be connected to one (1) main common duct.

The main duct may be any shape or cross-sectional area, as long as the minimum cross section area is provided. The illustration above shows the minimum cross section area for multiple dryer round or square venting. These figures must be increased 10 square inches (64.52 square centimeters) when rectangular main ducting is used, and the ratio of duct width to depth should not be greater than 3-1/2 to 1. In calculating ductwork size, the cross-sectional area of a square or rectangular duct must be increased twenty percent (20%) for each additional 20 feet (6.09 meters). The diameter of a round exhaust must be increased ten percent (10%) for each additional 20 feet (6.09 meters). Each additional 90° elbow is equivalent to an additional 20 feet (6.1 meters) and each 45° elbow is equivalent to an additional 10 feet (3.0 meters).

Warning

Dryer must never be operated without the lint filter/ screen in place, even if an external lint collection system is used.

Important

It is recommended that exhaust or booster fans not be used in the exhaust ductwork system.

Electrical Information

Electrical Requirements

It is your responsibility to have all electrical connections made by a properly licensed and competent electrician to ensure that the electrical installation is adequate and conforms to local and state regulations or codes. In the absence of such codes, all electrical connections, materials, and workmanship must conform to the applicable requirements of the National Electrical Code ANSI/NFPA NO. 70-LATEST EDITION or in Canada, the Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or LATEST EDITION.

Note

Component failure due to improper installation will void the warranty.

The use of aluminum wire will void the warranty.

Important

Failure to comply with these codes or ordinances, and/or the requirements stipulated in this manual can result in personal injury or component failure.

Each circuit must be *connected to an independently protected branch circuit.*

Use only copper conductor cable of proper ampacity and insulation in accordance with electric codes for making service connections.

A separate circuit servicing each dryer must be *provided.*

Electrical Service Specifications

Important

The wire size must be properly sized to handle the related current.

The dryer must be connected to the electric service/ supply shown on the dryer data label.

Note

Manufacturer reserves the right to make changes in specifications at any time without notice or obligation.

Component failure due to improper voltage application will void the warranty.

Gas Models

GAS

ELECTRICAL SERVICE SPECIFICATIONS (PER DRYER)

NOTES:
A. When fuses are used they **must be** dual element, time delay, current limiting, class RK1 or RK5 **ONLY**. Calculate/determine correct fuse value, by applying either local and/or National Electrical Codes to listed appliance amp draw data.
B. Circuit breakers are thermal-magnetic (industrial) motor curve type **ONLY**. For others, calculate/verify correct breaker size according to appliance amp draw rating and type of breaker used.
C. Circuit breakers for 3-phase (3Ø) dryers **must be** 3-pole type.

SERVICE VOLTAGE	PHASE	WIRE SERVICE	APPROX. AMP DRAW		CIRCUIT BREAKER
			60 Hz	50 Hz	
120	1ø	2	8.4	---	15
208	1ø	2	4.3	---	15
230	1ø	2	---	4.8	15
240	1ø	2	4.7	5.0	15

1/22/04

Electric Models

The connecting wires must be properly sized to handle the rated current.

ELECTRIC

ELECTRICAL SERVICE SPECIFICATIONS (PER DRYER)

NOTES:
A. When fuses are used they **must be** dual element, time delay, current limiting, class RK1 or RK5 **ONLY**. Calculate/determine correct fuse value, by applying either local and/or National Electrical Codes to listed appliance amp draw data.
B. Circuit breakers are thermal-magnetic (industrial) type **ONLY**. For others, calculate/verify correct breaker size according to appliance amp draw rating and type of breaker used.
C. Circuit breakers for 3-phase (3Ø) dryers **must be** 3-pole type.

SERVICE VOLTAGE	PHASE	WIRE SERVICE	APPROX. AMP DRAW		CIRCUIT BREAKER
			60 Hz	50 Hz	
208 (4.1 kW)	1ø	2	24.0	--	30
208 (6.1 kW)	1ø	2	33.6	--	40
230 (5.0 kW)	1ø	2	--	26.0	30
230 (7.4 kW)	1ø	2	--	36.5	45
240 (5.4 kW)	1ø	2	27.2	27.5	30
240 (8.1 kW)	1ø	2	38.5	38.8	45
380 (6.8 kW)	3ø	4	--	14.9	20
400 (7.5 kW)	3ø	4	--	15.6	20
416 (8.1 kW)	3ø	4	--	16.2	20

1/22/04

Grounding

A ground (earth) connection must be provided and installed in accordance with state and local codes. In the absence of these codes, grounding must conform to applicable requirements of the National Electrical Code ANSI/NFPA NO. 70-LATEST EDITION, or in Canada, the installation must conform to applicable Canada Standards: Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or LATEST EDITION. The ground connection may be to a proven earth ground at the location service panel.

For added personal safety, when possible, it is suggested that a separate ground wire (no. 18 minimum) be connected from the ground connection of the dryer to a grounded cold water pipe. Do not ground to a gas pipe or hot water pipe. The grounded cold water pipe must have metal-to-metal connection all the way to the electrical ground. If there are any nonmetallic interruptions, such as, a meter, pump, plastic, rubber, or other insulating connectors, they must be jumped out with no. 4 copper wire and securely clamped to bare metal at both ends.

Important

For personal safety and proper operation, the dryer must be grounded.

Provisions are made for ground connection in each dryer at the electrical service connection area.

Note

An individual manual shutoff valve must be installed within 6 feet (1.8288 meters) of the dryer in accordance with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

Warning

Electrical Grounding Instructions – This dryer is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

Electrical Connections

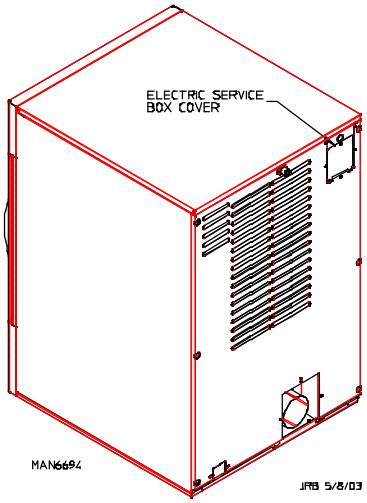
A wiring diagram is located inside the control panel.

Note

A circuit servicing each dryer must be provided.

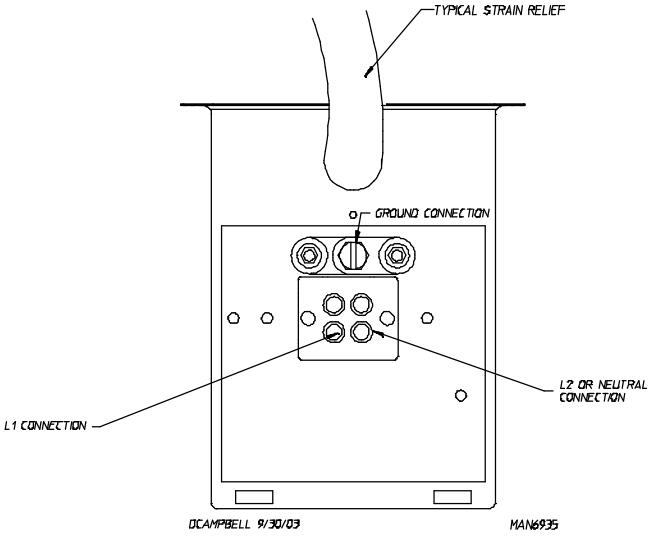
The electrical input connections on all dryers are made into the rear service box located at the upper right area of the dryer.

If local codes permit, power to the dryer can be made by the use of a flexible U.L. listed power cord or pigtail (wire size must conform to rating of dryer), or the dryer can be hard wired directly to the service breaker panel. In both cases, a strain relief must be installed where the wiring enters the dryer.



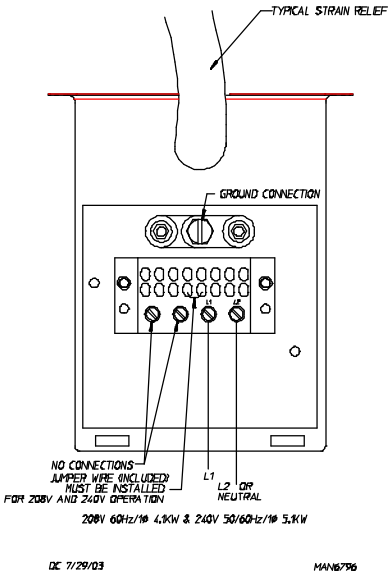
Gas Models

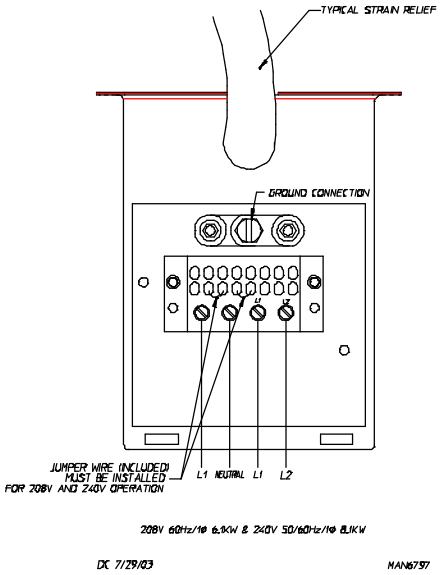
Single-Phase (1ø) Wiring Connections/Hookup



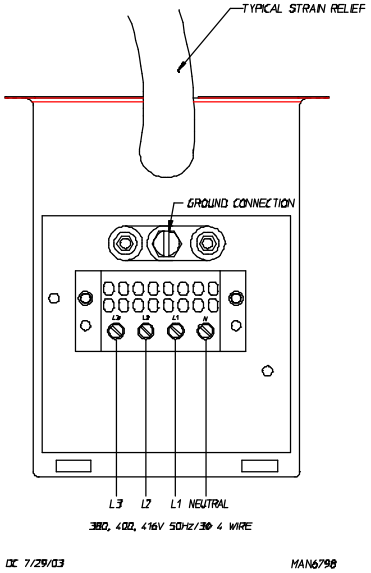
Electric Models Only

Single-Phase (1ø) Wiring Connections/Hookup





3-Phase (3ø) Wiring Connections/Hookup



Gas Information

It is your responsibility to have all plumbing connections made by a qualified professional to ensure that the gas plumbing installation is adequate and conforms to local and state regulations or codes. In the absence of such codes, all plumbing connections, materials, and workmanship must conform to the applicable requirements of the National Fuel Gas Code ANSI Z223.1-LATEST EDITION, or in Canada, the Canadian Installation Codes CAN/CGA-B149.1-M91 (Natural Gas) or CAN/CGA-B149.2-M91 (Liquid Propane [L.P.] Gas) or LATEST EDITION.

The dryer must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). The dryer must be isolated from the gas supply piping system by closing an external manual shutoff valve during any pressure test of the gas supply system at test pressures equal to or less than 1/2 psig (3.5 kPa).

Important

Failure to comply with codes or ordinances, and/or requirements in this manual, can result in personal injury and improper operation of the dryer.

Failure to isolate or disconnect the dryer from supply as noted can cause irreparable damage to the gas valve, which will void the warranty.

Warning

Fire or explosion could result due to failure of isolating or disconnecting the gas supply as noted.

Gas Supply

The gas dryer installation must meet the American National Standard...National Fuel Gas Code ANSI Z223.1-LATEST EDITION, or in Canada, the Canadian Installation Codes CAN/CGA-B149.1 M91 (Natural Gas) or CAN/CGA-B149.2-M91 (L.P. Gas) or LATEST EDITION, as well as local codes and ordinances and must be done by a qualified professional.

Note

Undersized gas piping will result in ignition problems, slow drying, increased use of energy, and can create a safety hazard.

The dryer must be connected to the type of heat/gas indicated on the dryer data label. If this information does not agree with the type of gas available, Do not operate the dryer. Contact the reseller who sold the dryer or contact the **ADC** factory.

The input ratings shown on the dryer data label are for elevations up to 2,000 feet (609.6 meters), unless elevation requirements of over 2,000 feet (609.6 meters) were specified at the time the dryer order was placed with the factory. The adjustment or conversion of dryers in the field for elevations over 2,000 feet (609.6 meters) is made by changing each burner orifice. If this conversion is necessary, contact the reseller who sold the dryer or contact the **ADC** factory.

Important

Any burner changes or conversions must be made by a qualified professional.

This gas dryer is not provided with an internal gas supply shutoff and an external gas supply shutoff must be provided.

Technical Gas Data

Gas Specifications

	TYPE OF GAS			
	NATURAL		LIQUID PROPANE	
Manifold Pressure*	3.5 inches W.C.	**8.7 mb**	10.5 inches W.C.	**26.1 mb**
In-Line Pressure	6.0 - 12.0 inches W.C.	**14.92 - 29.9 mb**	11.0 inches W.C.	**27.4 mb**

Shaded areas are stated in metric equivalents

* Measured at outlet side of gas valve pressure tap when gas valve is on.

Gas Connections

Inlet connection ..... 3/8" M.P.T.
Inlet supply size ..... 3/8" Pipe (minimum)
Btu/hr input (per dryer) ..... 40,000 (10,080 kcal/hr)

Natural Gas

Regulation is controlled by the dryer's gas valve's internal regulator. Incoming supply pressure must be consistent between a minimum of 6.0 inches (14.92 mb) and a maximum of 12.0 inches (29.9 mb) water column (W.C.) pressure.

Liquid Propane (L.P.) Gas

Dryers made for use with L.P. gas have the gas valve's internal pressure regulator blocked open so that the gas pressure must be regulated upstream of the dryer. The pressure measured at each gas valve pressure tap must be a consistent 10.5 inches (26.1 mb) water column. There is no regulator or regulation provided in an L.P. dryer. The water column pressure must be regulated at the source (L.P. tank) or an external regulator must be added to each dryer.

		TYPE OF GAS						Liquid Propane Conversion Kit Part Number
Btu/hr Rating	**kcal/hr Rating**	Natural			Liquid Propane			
		Qty.	D.M.S.*	Part No.	Qty.	D.M.S.*	Part No.	
40,000	**10,080**	1	#31	140868	1	#49	140869	883610

Shaded area is stated in metric equivalent

* Drill Measurement Size (D.M.S.) equivalents are as follows:

Natural Gas .....#31 = 0.1200" (3.048 mm).
Liquid Propane Gas ...#49 = 0.0730" (1.8542 mm).

For use with natural gas and propane, a conversion kit, as supplied by the manufacturer, shall be used to convert this dryer to the alternate fuel.

Pour utilisation avec le gaz naturel ou le propane. Utilisez la trousse de conversion fournie par le fabricant pour passer d'un combustible à l'autre.

Piping Connections

All components/materials must conform to National Fuel Gas Code Specifications ANSI Z223.1-LATEST EDITION, or in Canada, CAN/CGA-B149.1-M91 (Natural Gas) or CAN/CGA-B149.2-M91 (L.P. Gas) or LATEST EDITION (for General Installation and Gas Plumbing), as well as local codes and ordinances and must be done by a qualified professional. It is important that gas pressure regulators meet applicable pressure requirements, and that gas meters be rated for the total amount of all the appliance Btus being supplied.

The dryer is provided with a 3/8" M.P.T. inlet pipe connection located at the left side of the base of the dryer, when viewing from the rear. The minimum pipe size (supply line) to the dryer is 3/8" diameter. For ease in servicing, the gas supply line of each dryer must have its own shutoff valve.

Important
The gas supply line to each dryer must be a minimum of 3/8-inch (9.5 mm). Do not reduce this pipe size requirement.

The size of the main gas supply line (header) will vary depending on the distance this line travels from the gas meter or, in the case of liquid propane (L.P.) gas, the supply tank, other gas-operated appliances on the same line, etc. Specific information regarding supply line size should be determined by the gas supplier.

Note
Undersized gas supply piping can create a low or inconsistent pressure, which will result in erratic operation of the burner ignition system.

Consistent gas pressure is essential at all gas connections. It is recommended that a 1/2" (12.7 mm) pipe gas loop be installed in the supply line servicing a bank of dryers. An in-line pressure regulator must be installed in the gas supply line (header) if the (natural) gas pressure exceeds 12.0 inches (29.9 mb) of water column (W.C.) pressure.

A 1/8" N.P.T. plugged tap, accessible for a test gauge connection, must be installed in the main gas supply line immediately upstream of each dryer.

Important
The dryer and its individual shutoff valve must be *disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).*

Pipe joint compounds that resist the action of natural gas and L.P. gas must be *used.*

Test all *connections for leaks by brushing on a soapy water solution (liquid detergent works well).*

Warning
Never test for leaks with a flame!!!

Note
A water column test pressure of 3.5 inches (8.7 mb) for natural gas and 10.5 inches (26.1 mb) for L.P. dryers is required at the gas valve pressure tap of each dryer for proper and safe operation.

The dryer must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure test of the gas supply system at test pressures equal to or less than 1/2 psig (3.5 kPa).

Preparation For Operation/Start-Up

The following items should be checked before attempting to operate the dryer:

- Read all "CAUTION," "WARNING," and "DIRECTION" labels attached to the dryer.
- Check incoming supply voltage to be sure that it is the same as indicated on the dryer data label.
- Gas Models – check to ensure that the dryer is connected to the type of heat/gas indicated on the dryer data label.
- Gas and Electric Models – the sail switch damper assembly was installed and adjusted at the factory prior to shipping. However, each sail switch adjustment must be checked to ensure that this important safety control is functioning.
- Check bolts, nuts, screws, terminals, and fittings for tightness.
- Gas Models – be sure that all gas shutoff valves are in the open position.
- Check that the back guard panel and the electrical box cover have been replaced.
- Check the lint drawer/tray to ensure that it is closed and secured in place.
- Rotate the basket (tumbler/drum) by hand to be sure it moves freely.
- Check terminals and fittings for security.

Preoperational Tests

All dryers are thoroughly tested and inspected before leaving the factory. However, a preoperational test should be performed before the dryer is publicly used. It is possible that adjustments have changed in transit or due to marginal location (installation) conditions.

Turn on electric power to the dryer.

Refer to the Operating Instructions for starting your particular model dryer.

Gas Models Only
When a gas dryer is first started (during initial start-up), it has a tendency not to ignite on the first ignition attempt. This is because the gas supply piping is filled with air, so it may take a few minutes for the air to be purged from the lines.

Note
During the purging period, check to be sure that all *gas shutoff valves are open.*

Important
There is no regulator provided in a L.P. dryer. The water column pressure must be *regulated at the source (L.P. tank), or an external regulator* must be *added to each dryer*

Make a complete operational check of all safety related circuits:

- Door Switch(es)
- Hi-Limit Thermostats
- Cycling Thermostat
- Gas And Electric Models Only – Sail Switch

Make a complete operational check of all operating controls.

Note
If computer program changes are required, refer to the computer programming section of the manual supplied with the dryer.

The dryer should be operated through one (1) complete cycle to ensure that all components are functioning properly.

Preoperational Instructions

Coin Models

Microprocessor Controller (Computer)
When the microprocessor controller (computer) is in the ready state, the liquid crystal display (L.C.D.) screen will display "Ready, Insert $XX.XX (amount) to Start".

Insert coin(s). Once the correct "Amount to Start" has been inserted, the L.C.D. will display "Select Temperature".

Select temperature by pressing "HI," "MED," or "LO." The cycle will start and the L.C.D. will display the Dry Cycle selected and the remaining time.

The dryer will continue through the drying and cooling cycles, until the vended time has expired.

Note

To stop dryer, open main door or pressing the pause key. Continuation of the cycle will resume only after the door has been closed and any of the three (3) temperature selection is pressed.

Upon completion of the drying and cooling cycles, the tone (buzzer) will sound and the dryer will go into the Anti-Wrinkle Mode for 99 minutes, or until the main door has been opened.

Important

For more detailed information regarding the microprocessor controller (computer) on your dryer, refer to the microprocessor user's manual included with the dryer.

Non-Coin Models

The light emitting diode (L.E.D.) display reads "READY" (no cycle in progress).

Press the letter on the keyboard (touch pad) corresponding to the cycle desired (i.e., key "D").

Note

"0-40" will require the "START/ENTER" [I] key to be pressed after the number is selected in order to accept the selection and start drying.

The dryer will then start. (i.e., blower, basket [tumbler], and heat).

The L.E.D. display will read MANUAL DRYING CYCLE D, 00:00 MIN REMAIN.

Note

Press and hold the "UP ARROW" to view the basket (tumbler) temperature at any time.

The dryer can be stopped at any time by pressing the "STOP/CLEAR" [O] key, at this time the dryer will go into a cycle pause. If the "STOP/CLEAR" [O] key is pressed again at this point, the cycle that was in progress will be cancelled and returned to the "READY" state.

Press and hold the "DOWN ARROW" to view the basket (tumbler) RPM.

When the programmed drying time has expired, the Phase 7 non-coin microprocessor controller (computer) will proceed into the Cool Down Cycle.

Once the Cool Down Cycle begins at the end of the heat cycle, the L.E.D. display will read COOL DOWN TEMP ___/___ MINUTES remaining. At the end of the heat cycle, the dryer will shut off the heat and continue the fan and basket (tumbler) until the Cool Down Time or temperature is reached.

Important

For more detailed information regarding the microprocessor controller (computer) on your dryer, refer to the microprocessor user's manual included with the dryer.

Shutdown Instructions

If the dryer is to be shutdown (taken out of service) for a period of time, the following must be performed:

Discontinue power to the dryer either at the external disconnect switch or the circuit breaker.

Discontinue the heat supply:

Gas Models - discontinue the gas supply.
Shut off external gas supply shutoff valve.

Service/Parts Information

Service

Service must be performed by a qualified trained technician, service agency, or gas supplier. If service is required, contact the reseller from whom the **ADC** equipment was purchased. If the reseller cannot be contacted or is unknown, contact the **ADC** Service Department for a reseller in your area.

Note
*When contacting the **ADC** Service Department, be sure to give them the correct model number and serial number so that your inquiry is handled in an expeditious manner.*

Parts

Replacement parts should be purchased from the reseller from whom the **ADC** equipment was purchased. If the reseller cannot be contacted or is unknown, contact the **ADC** Parts Department for a reseller in your area. Parts may also be purchased directly from the factory by calling the **ADC** Parts Department at (508) 678-9000 or you may FAX in your order at (508) 678-9447.

Note
*When ordering replacement parts from the **ADC** reseller or the **ADC** factory be sure to give them the correct model number and serial number so that your parts order can be processed in an expeditious manner.*

Warranty Information

Returning Warranty Cards

Before any dryer leaves the **ADC** factory test area, a warranty card is placed on the back side of the main door glass. These warranty cards are intended to serve the customer where we record the individual installation date and warranty information to better serve you should you file a warranty claim.

If a warranty card did not come with your dryer, contact the **ADC** Warranty Department or the **ADC** Service Department at (508) 678-9000.

Important
A separate warranty card must be completed and returned for each individual dryer.

Note
Be sure to include the installation date when returning the warranty card(s).

Warranty

For a copy of the **ADC** commercial warranty covering your particular dryer(s), contact the **ADC** reseller from whom you purchased the equipment and request a dryer warranty form. If the reseller cannot be contacted or is unknown, warranty information can be obtained from the factory by contacting the **ADC** Warranty Department at (508) 678-9000.

Note
*Whenever contacting the **ADC** factory for warranty information, be sure to have the dryer's model number and serial number available so that your inquiry can be handled in an expeditious manner.*

Returning Warranty Parts

AllL dryer or parts warranty claims or inquiries should be addressed to the **ADC** Warranty Parts Department. To expedite processing, the following procedures must be followed:

No parts are to be returned to **ADC** without prior written authorization ("Return Material Authorization" [R.M.A.]) from the factory.

Note
An R.M.A. is valid for only thirty (30) days from date of issue.

The R.M.A. issued by the factory, as well as any other correspondence pertaining to the returned part(s), must be included inside the package with the failed merchandise.

Each part must be tagged with the following information:

- Model number and serial number of the dryer from which part was removed.
- Nature of failure (be specific).
- Date of dryer installation.
- Date of part failure.
- Specify whether the part(s) being returned is for a replacement, a credit, or a refund.

Note
If a part is marked for a credit or a refund, the invoice number covering the purchase of the replacement part must be provided.

*Warranty tags (**ADC** P/N 450064) are available at "no charge" from **ADC** upon request.*

The company returning the part(s) must clearly note the complete company name and address on the outside of the package.

All returns must be properly packaged to ensure that they are not damaged in transit. Damage claims are the responsibility of the shipper.

Important
No replacements, credits, or refunds will be issued for merchandise damaged in transit.

All returns should be shipped to the **ADC** factory in such a manner that they are insured and a proof of delivery can be obtained by the sender.

Shipping charges are not the responsibility of **ADC**. All returns should be "prepaid" to the factory. Any "C.O.D." or "COLLECT" returns will not be accepted.

Important
*No replacements, credits, or refunds will be issued if the claim cannot be processed due to insufficient information. The party filing the claim will be notified in writing, either by "FAX" or "CERTIFIED MAIL – Return Receipt Requested," as to the information necessary to process claim. If reply is not received by the **ADC** Warranty Department within thirty (30) days from the FAX/letter date, then no replacements, credits, or refunds will be issued, and the merchandise will be discarded.*

Routine Maintenance

A program and/or schedule should be established for periodic inspection, cleaning, and removal of lint from various areas of the dryer, as well as throughout the ductwork system. The frequency of cleaning can best be determined from experience at each location. Maximum operating efficiency is dependent upon proper air circulation. The accumulation of lint can restrict this airflow. If the guidelines in this section are met, an **ADC** dryer will provide many years of efficient, trouble free, and most importantly, safe operation.

Warning

Lint from most fabrics is highly combustible. The accumulation of lint can create a potential fire hazard.

Keep dryer area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

Note

Suggested time intervals shown are for average usage, which is considered six (6) to eight (8) operational (running) hours per day.

Important

Dryer produces combustible lint and must be exhausted to the outdoors. Every 6 months, inspect the exhaust ducting and remove any lint buildup.

Suggested Cleaning Schedule

Every Third Or Fourth Load

Clean the lint drawer/tray every third or fourth load. A clogged lint drawer/tray will cause poor dryer performance. The lint drawer/tray is located on the lower front of the dryer. Inspect lint screen and replace if torn.

Note

The frequency of cleaning the lint drawer/tray can best be determined from experience at each location.

Weekly

Clean lint accumulation from lint chamber, thermostat, and temperature high-limit sensor area.

Warning

To avoid the hazard of electrical shock, discontinue electrical supply to the dryer.

90 Days

Inspect and remove lint accumulation in customer furnished exhaust ductwork system from dryer's internal exhaust ducting.

Warning

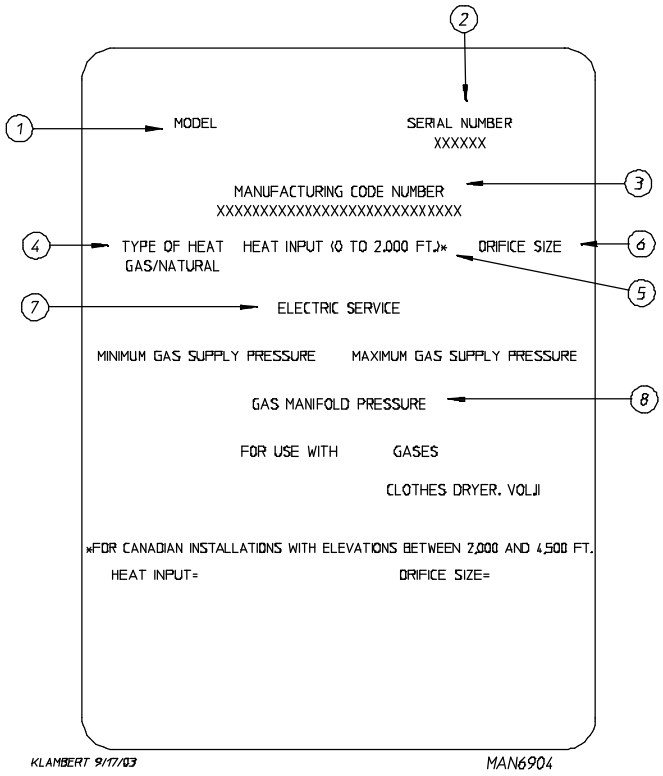
The accumulation of lint in the exhaust ductwork can create a potential fire hazard.

Do not obstruct the flow of combustion and ventilation air.

Note

When cleaning the dryer cabinet(s), avoid using harsh abrasives. A product intended for the cleaning of appliances is recommended.

Data Label Information



When contacting American Dryer Corporation, certain information is required to ensure proper service/parts information from **ADC**. This information is on the data label that is affixed to the rear upper left back area of the dryer, which can be viewed either through the openings in the dryer's back panel/guard, or by removing this back panel/guard. When contacting **ADC**, please have the model number and serial number available.

1. **MODEL NUMBER**
   The model number is an **ADC** number, which describes the size of the dryer and the type of heat (gas, electric, or steam).

2. **SERIAL NUMBER**
   The serial number allows **ADC** to gather information on your particular dryer.

3. **MANUFACTURING CODE NUMBER**
   The manufacturing code number is a number issued by **ADC,** which describes all possible options on your particular model.

4. **TYPE OF HEAT**
   This describes the type of heat for your particular dryer: gas (either natural gas or liquid propane [L.P.] gas), electric, or steam.

5. **HEAT INPUT** (FOR GAS DRYERS)
   This describes the heat input in British Thermal Units per Hour (Btu/hr).

6. **ORIFICE SIZE** (FOR GAS DRYERS)
   Gives the number drill size used.

7. **ELECTRIC SERVICE**
   This describes the electric service for your particular model.

8. **GAS MANIFOLD PRESSURE** (FOR GAS DRYERS)
   This describes the manifold pressure taken at the gas valve tap.

Sensor Activated Fire Extinguishing (S.A.F.E.) System

S.A.F.E. System In Action

The exclusive Sensor Activated Fire Extinguishing (S.A.F.E.) system will extinguish fires that may start in the drying basket (tumbler). A series of sensors positioned throughout the basket (tumbler) and interfaced with the microprocessor will trigger the S.A.F.E. system water jet(s) to quickly extinguish the flames. The water jet(s) remain on for 2 minutes and will automatically activate again if a fire condition remains or reignites. While the water jet(s) are activated, the basket (tumbler) will jog to move the water throughout the load. The microprocessor will display that the system was activated and will continue to display until the dryer is attended to.

We have tried to make this manual as complete as possible and hope you will find it useful. **ADC** reserves the right to make changes from time to time, without notice or obligation, in prices, specifications, colors, and material, and to change or discontinue models.

Before You Start

Check Local Codes And Permits

Call your local water company or the proper municipal authority for information regarding local codes.

Important

It is your responsibility to have all plumbing connections made by a qualified professional to ensure that the plumbing installation is adequate and conforms to local, state, and federal regulations or codes.

It is the installation or owner's responsibility to see that the necessary or required water, water pressure, pipe size, or connections are provided. The manufacturer assumes no responsibility if the S.A.F.E. system is not connected, installed, or maintained properly.

Installation

Requirements

The inlet water connection to the dryer is a 3/4-11.5 NH, the S.A.F.E. system must be supplied with a minimum water pipe size of 1/2" and be provided with 40 psi +/- 20 psi (2.75 bar +/- 1.37 bar) of pressure. For use of optional manual bypass, a second source with the same piping and pressure requirements is required.

Flexible 1/2 feeds must be provided to avoid damage to electric water solenoid valve by vibration.

Important

Flexible supply line/coupling must be used. Solenoid valve failure due to hard plumbing connections will void warranty.

If the rear area of the dryer, or the water supply is located in an area where it will be exposed to cold/freezing temperatures, provisions must be made to protect these water lines from freezing.

Warning

If the water in the supply line or water solenoid valve freezes, the S.A.F.E. system will be inoperative!!

Important

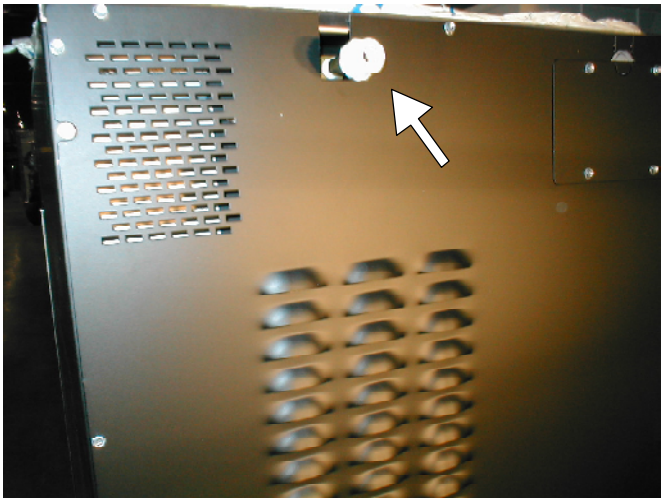
Appliance is to be connected to the water mains using a new hose-set and the old hose-sets should not be reused.

Water Connections

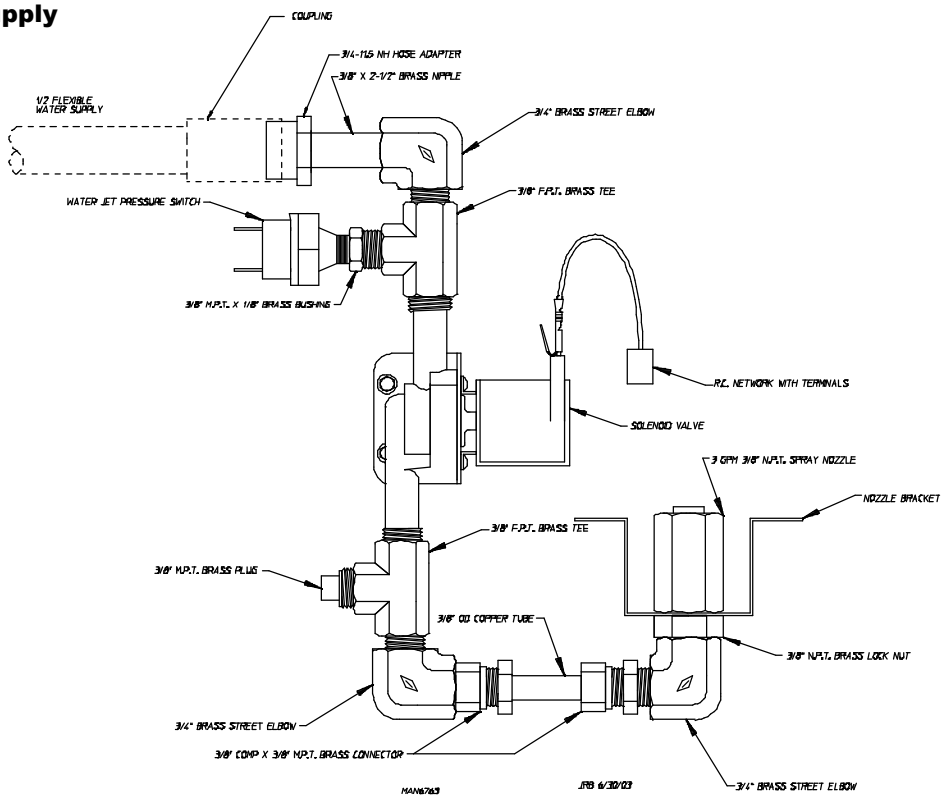
The water connection is made to the 3/4-11.5 NH hose adapter of the electric water solenoid valve, located at the rear upper midsection of the dryer (refer to the photo). The water solenoid valve has a 3/8" M.P.T. connection supplied with a 3/4-11.5 NH hose adapter to provide the minimum 1/2-inch supply (feed) line. Flexible supply line/coupling must be used in an effort to avoid damaging the electric water solenoid valve.

Important

Flexible supply line/coupling must be used. Solenoid valve failure due to hard plumbing connections will void warranty. It is recommended that a filter or strainer be installed in the water supply line.



Typical Water Supply



Optional Manual Bypass

Provisions are made in the dryer S.A.F.E. system for the installation of an optional manual bypass. Depending on the model dryer, the connections for the manual bypass are made at the "T" or "cross" fitting located in the outlet side of the water solenoid valve. The use and connections of this manual bypass are at the option or discretion of the owner.

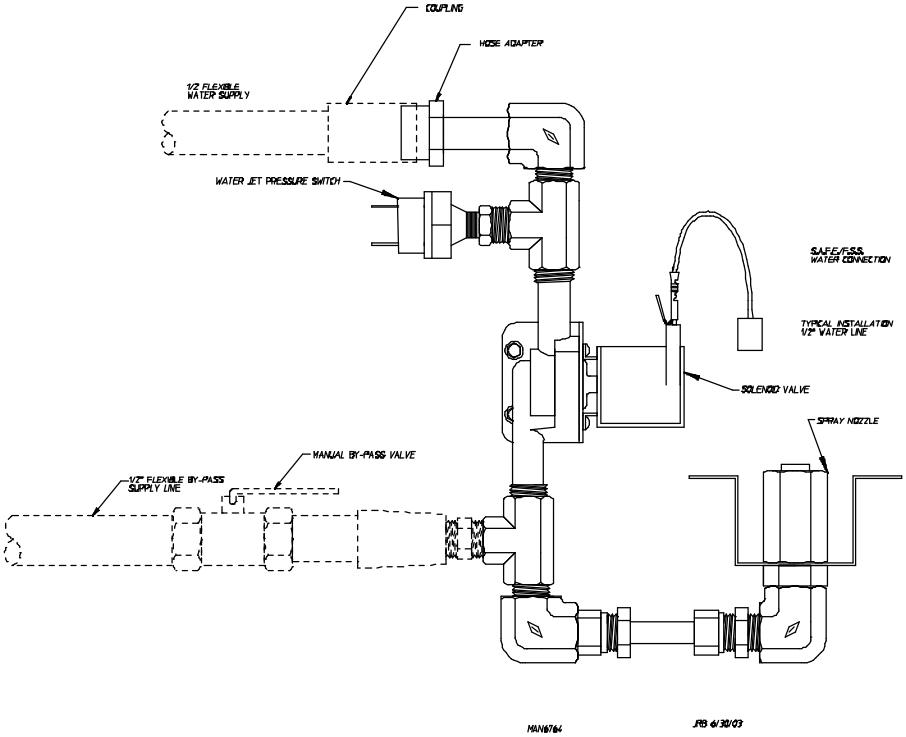
The water connection for the manual bypass is made to the "T" or "cross" fitting which has a 3/8" F.P.T. and a coupling **must be** used to provide the minimum 1/2" supply (feed) line.

If the rear area of the dryer, or the water supply is located in an area where it will be exposed to cold/freezing temperatures, provisions **must be** made to protect these water lines from freezing.

Warning

If the water in the supply line or water solenoid valve freezes, the S.A.F.E. system will be inoperative!!

The manual ball cock shutoff valve must be located outside of the dryer at a distance from the dryer where it is easily accessible.



Electrical Requirements

No independent external power source or supply connection is necessary. The 24 volt power to operate the S.A.F.E. system is supplied internally from the dryer control.

Warning

Electrical power must be *provided to the dryer at all times. If the main electrical power supply to the dryer is disconnected, the S.A.F.E. system is inoperative!!*

S.A.F.E. System Theory of Operation

While the dryer is in an idle state or 20-seconds after the heat turns off, the Phase 7 control monitors the S.A.F.E. system probe located in the top of the basket (tumbler) chamber and records the minimum temperature. If the minimum recorded S.A.F.E. system probe temperature is greater than 120° F (48° C) and the control detects a 50° rise in temperature, this will be the trip point and the S.A.F.E. system routine will activate.

While a drying cycle is in process and the heat has turned on at least once, the Phase 7 control monitors the exhaust temperature transducer. If the drying cycle temperature set point is set greater than 160° F (71° C) and the control detects an exhaust temperature rise 25° F greater than set point, this will be the trip point and the S.A.F.E. system routine will activate. If set point is below 160° F (71° C) the trip point will be 185° F (85° C).

Once the S.A.F.E. system routine is activated, the control will display "S.A.F.E. System Activated" and water will be injected into the basket (tumbler) chamber. Anytime water is being injected into the basket (tumbler); the basket (tumbler) drive will turn the load for 1-second every 15-seconds. This process will continue for a minimum of 2 minutes. After 2 minutes has elapsed, the control will check if the temperature remained above trip point, if so water will remain on. The control will continue to check if temperature is above trip point every 30-seconds. If the water has been on for a constant 10 minutes, the water will be turned off regardless of the temperature and the control will display "S.A.F.E. Was Activated." If the temperature has dropped below trip point, the control will turn off the water prior to 10 minutes.

Disabled S.A.F.E. System

In the event that the S.A.F.E. system is not installed properly or if there is a malfunction in the system the Phase 7 coin control will notify the user by displaying the message "S.A.F.E. DISABLED..." If the "PAUSE" and "LO" keys are simultaneously pressed, the control will display one of the following diagnostic messages indicating the fault with the system. If there is more than one issue with the S.A.F.E. system, the control will display one message at a time.

S.A.F.E. Diagnostic Messages

Open S.A.F.E. Probe Fault: This message indicates that the S.A.F.E. probe is either not connected or is damaged.

Shorted S.A.F.E. Probe Fault: This message indicated that the S.A.F.E. probe is damaged or the wiring is shorted.

Open S.A.F.E. Valve Fault: This indicates that the water valve is open or that it is not connected to the control.

Shorted S.A.F.E. Valve Fault: This indicates the water valve is shorted or the wiring to the valve is shorted.

Water Not Connected: This indicates that there is no water pressure at the water valve. This will occur if water is not connected to dryer or if there is low water pressure in the water line coming to the dryer. This could also be a defective pressure switch or wiring to the pressure switch.

System Reset

To reset the microprocessor once the control displays "S.A.F.E. Was Activated," press and hold the "PAUSE" key for 3-seconds.

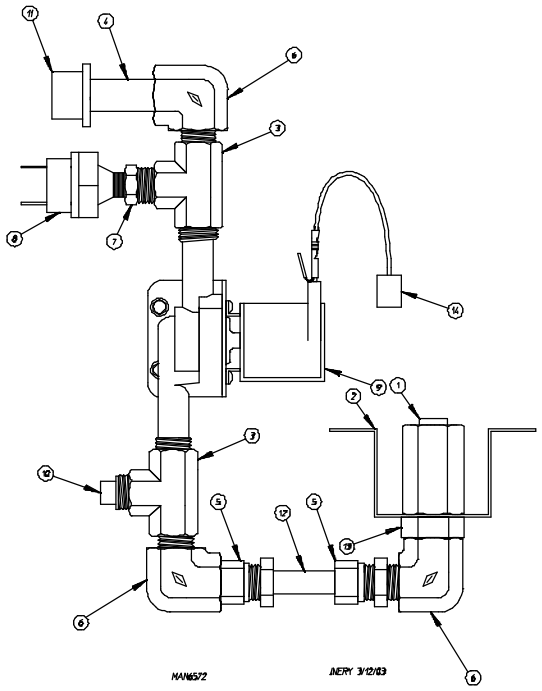
S.A.F.E. Parts Break Down

Single Pocket Dryers

Replacement parts can be obtained from your reseller or the **ADC** factory. When ordering replacement parts from the factory, you can FAX your order to **ADC** at (508) 678-9447 or telephone your order directly to the **ADC** Parts Department at (508) 678-9000. Please specify the dryer model number and serial number in addition to the description and part number, so that your order is processed accurately and promptly.

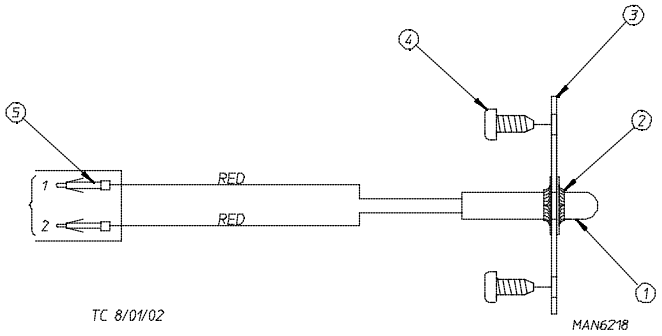
The illustrations on the following pages may not depict your particular dryer exactly. The illustrations are composite of the various dryer models. Be sure to check the descriptions of the parts thoroughly before ordering.

We have tried to make this manual as complete as possible and hope you will find it useful. **ADC** reserves the right to make changes from time to time, without notice or obligation, in prices, specifications, colors, and material, and to change or discontinue models.



Illus. No.	Part No.	Qty.	Description
1	143581	1	3 GPM 3/8" F.P.T. Spray Nozzle
2	318167	1	Nozzle Bracket
3	143220	2	3/8" F.P.T. Brass Tee
4	143242	1	3/8" x 2-1/2" Brass Nipple
5	143208	2	3/8" Comp x 3/8" M.P.T. Brass Connector
6	143155	3	3/8" Brass Street Elbow
7	143315	1	3/8" M.P.T. x 1/8" Brass Bushing
8	136987	1	Water Jet Pressure Switch
9	165114	1	Solenoid Valve
10	143251	1	3/8" M.P.T. Brass Plug
11	143025	1	3/4-11.5 NH x 3/8" N.P.T. Hose Adapter
12	143099	1	3/8" OD x 0.035 Wall Copper Tubing
13	143303	1	3/8" N.P.T. Brass Lock Nut
14	824081	1	R.C. Network with Terminals

S.A.F.E. Sensor Probe Assembly



Illus. No.	Part No.	Qty.	Description
1	883821	1	S.A.F.E. System Temperature Probe Assembly (includes illus. nos. 1 through 3 and 5)
2	154007	2	Push On Fastener
3	318525	1	Sensor Bracket ONLY
4	150301	2	#8-18 x 7/16" Phillips Pan Head TEK Screw
5	122646	1	Connector ONLY (**does not** include terminals)

Notes _____